

02/10

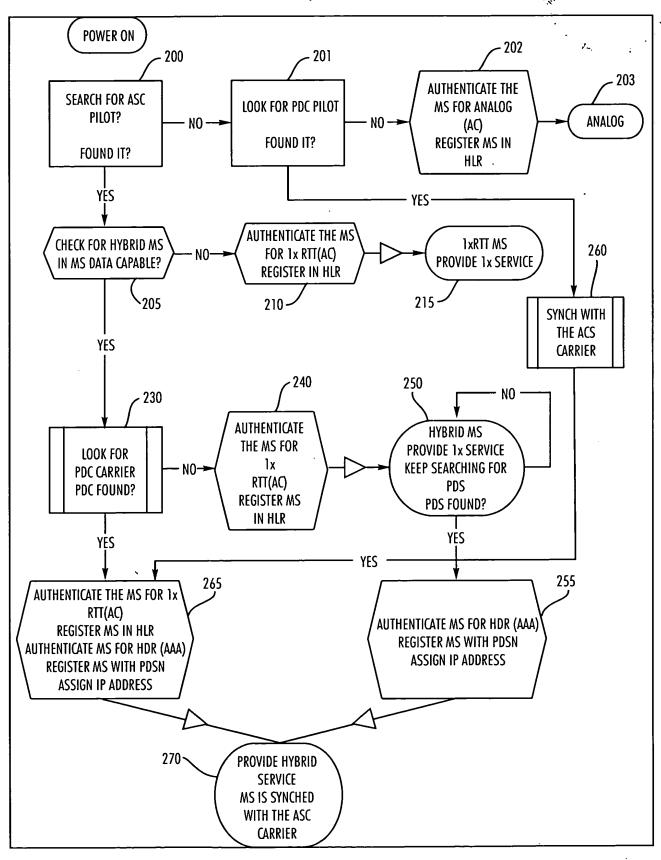


Fig. 2

## 3.6 INCOMING DATA CALL IN IDLE STATE

MS is on ASC
MS has IP address 200
PDCN notifies BSC of call 205
BSC notifies MSC of call via A- interface
MSC checks COS——210
If automatic switch over is ON 215
If is High data rate is ON
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON Call Complete
MS disconnect data call
Synch back with ASC 220
Else
Use the low rate data of 1xRTT
MS can use simultaneous data and voice
<u>Else</u> —225
Send an SMS with incoming data call (Y/N)
If MS accepts call
Send SMS message, Would you like to use high or low data
If high data rate is selected230
Synch with PDC
Switch MS to PDC
Connect MS to PDCN → Call is ON
MS disconnect data call
Synch with ASC
Else
Use the low rate data of 1xRTT
MS can use simultaneous data and voice
Else
Data call is not accepted
Data can is not accepted

Fig. 3

### 3.7 OUTGOING DATA CALL IN IDLE STATE

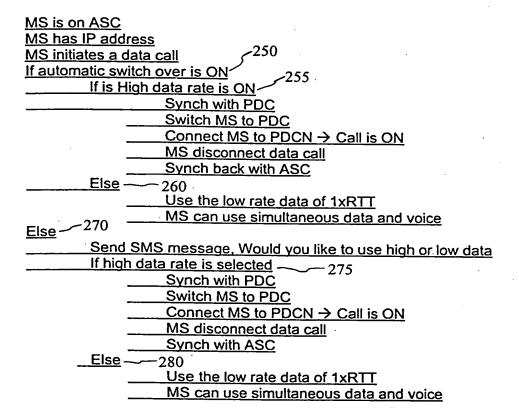


Fig. 4

3.8

DRAFTEMAN

## INCOMING DATA CALL WHILE ON VOICE

	MS is on ASC
	MS has IP address 300
	PDCN notifies BSC of call
	BSC notifies MSC of call via A- interface
	MSC checks COS
	If automatic switch over is ON 310
	Check Fundamental Data rate feature
	If is High data rate is ON
	Place caller on hold in the MSC
	Inform voice call of situation (RCAN)
	Call is still active in the BSC and MSC (Billing is ON)
	Synch with PDC
	Switch MS to PDC
	Connect MS to PDCN → Call is ON
	MS has control to switch back to voice call
	MS disconnect data call
	Synch with ASC
	Bring back voice call
	Else ——320
	Use the low rate data of 1xRTT
	MS can use simultaneous data and voice
	Else /
	<u>Else</u>
	Send an SMS with incoming data call (Y/N)  If MS accepts call  330
	Send an SMS with incoming data call (Y/N)  If MS accepts call
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data
-	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected
-	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC
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	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call  Synch with ASC  Bring back voice call
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call  Synch with ASC  Bring back voice call  Else—335
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call  Synch with ASC  Bring back voice call  Else → 335  Use the low rate data of 1xRTT  MS can use simultaneous data and voice
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call  Synch with ASC  Bring back voice call  Else—335  Use the low rate data of 1xRTT  MS can use simultaneous data and voice
	Send an SMS with incoming data call (Y/N)  If MS accepts call  Send SMS message, Would you like to use high or low data  If high data rate is selected  Place caller on hold in the MSC  Inform voice call of situation (RCAN)  Call is still active in the BSC  and MSC-Billing On  Synch with PDC  Switch MS to PDC  Connect MS to PDCN → Call is ON  MS has control to switch back to voice  call  MS disconnect data call  Synch with ASC  Bring back voice call  Else → 335  Use the low rate data of 1xRTT  MS can use simultaneous data and voice

Fig. 5

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## 3.9 <u>OUTGOING DATA CALL WHILE ON VOICE</u>

MS is on ASC MS has IP address 350 MS initiates a data call If automatic switch over is ON Check Fundamental Data rate feature If is High data rate is ON Place caller on hold in the MSC Inform voice call of situation (RCAN) Call is still active in the BSC and MSC (Billing is ON) Synch with PDC Switch MS to PDC Connect MS to PDCN → Call is ON MS disconnect data call 360 Synch back with ASC Bring back voice call Else Use the low rate data of 1xRTT 365 MS can use simultaneous data and voice Else Send SMS message, Would you like to use high or low data If high data rate is selected Place caller on hold in the MSC Inform voice call of situation (RCAN) Call is still active in the BSC and MSC-Billing On Synch with PDC Switch MS to PDC Connect MS to PDCN → Call is ON MS disconnect data call 370 Synch with ASC Bring back voice call Else Use the low rate data of 1xRTT MS can use simultaneous data and voice

Fig. 6

Fig. 7

## 3.12 <u>INCOMING VOICE CALL WHILE ON DATA (HYBRID)</u>

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MS is on the PDC carrier MSC get a voice call Check COS for Voice Automatic Switch over If feature is on block Block the call \_\_\_\_ -380Give RCAN **Else** If feature is ON-Check Supplemental Data rate feature If the High data rate is ON Cannot accept the call Caller is informed with RCAN Else Synch with ASC Continue the data call on lower data Accept the voice call Treat call as 1XRTT Else 420 Send SMS to user, voice call is coming, accept call? If caller accepts call Send SMS to user, "High data rate is no longer available" Synch with ASC Continue the data call on lower data Accept the voice call Treat call as 1XRTT Else 430 Call is rejected

#### Caller is informed with RCAN

# Fig. 8 OUTGOING VOICE CALL WHILE ON DATA (HYBRID)

MS is on the PDC carrier
MS initiates a voice call
Send SMS to user " Are you sure, you will loose your high data rate?"

If the user accepts 445
Synch with ASC
Continue the data call on lower data
Make the voice call
Treat call as 1XRTT call

Else
Call is not placed 450

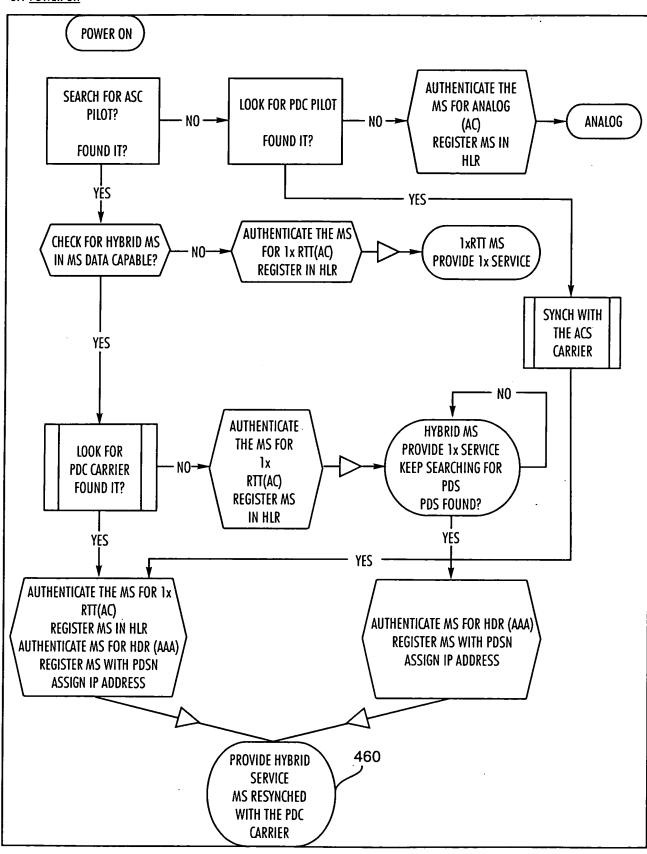


Fig. 9

3.4 **INCOMING VOICE CALL IN THE IDLE STATE** MS is on PDC MSC gets the call MSC checks the COS for Automatic switch for voice call If feature is ON MSC instructs the MS to search for the ASC MS finds the ASC and informs the MSC MS switches to ASC MSC sends that call to the MS → call is ON Call is complete (Release) 480 MSC instructs the MS to synch back with the PDC MS is synched with PDC <u>Else</u> MSC sends an SMS to the user telling him about the call If MS accepts the call MSC instructs the MS to search for the ASC MS finds the ASC and informs the MSC MS switches to ASC MSC sends that call to the MS → call is ON Call is complete (Release) 490 MSC instructs the MS to synch back with the PDC MS is synched with PDC <u>Else</u> Call is rejected

Fig. 10

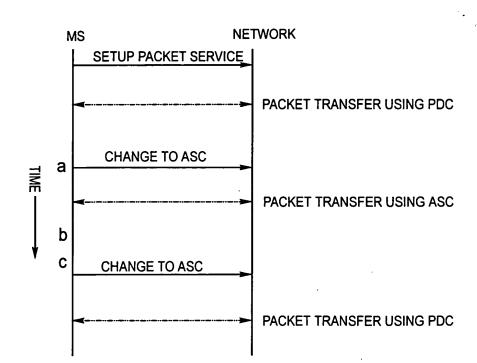


Fig. 11

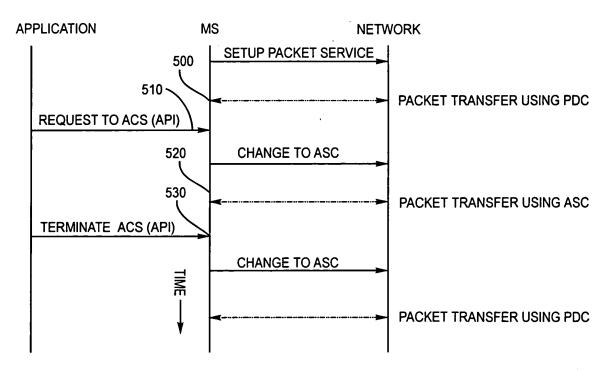


Fig. 12